



Montana Department of Transportation
PO Box 201001
Helena, MT 59620-1001

MEMORANDUM

To: See Distribution
From: Kevin Christensen, P.E.
Construction Engineer
Date: January 5, 2009
Subject: Supplemental Specification Addition: 701.02.1, General Requirements (Aggregate for Surfacing)

The Construction Administration Services Bureau is proposing changes to 701.02.1, General Requirements, following the Standard Specification Revision Process outlined in the Construction Engineer's Memorandum dated May 2008. The following information is provided.

1. 701.02.1, General Requirements will be modified.
2. The Proposed Draft of the change is attached along with this memorandum.
3. Revisions to the Standard Specifications are needed to redefine requirements for aggregate testing.
4. Those impacted by the change include:
Construction, Contractors, Materials
5. The following individuals were consulted and/or involved in developing the proposed revisions:
CAS, CES Bureau, Materials

*It is requested that written comments on **the proposed revisions only**, be returned to mdtspecifications@mt.gov no later than 1-30, 2009.*

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701.02 AGGREGATE FOR SURFACING**701.02.1 General Requirements**

The following test methods, as applicable, are used to evaluate the surfacing aggregate quality:

| | |
|--|---------------------------|
| Sieve Analysis For Fine And Coarse Aggregate..... | MT-202 |
| Wear Test | MT-209 |
| Liquid Limit, Plastic Limit, Plasticity Index..... | MT-208 |
| Fracture | MT-217 |
| Volume Swell of Bituminous Mixtures..... | MT-305 |
| Sulfate Soundness..... | AASHTO T-104 or ASTM C-88 |
| Micro-Deval..... | MT-233 |

Passing wear test results are mandatory for Department approval of sources. Micro-Deval or Sulfate soundness tests may be used by the Department for source approval. If any of the tests fails the Contractor may not use the source to produce coarse surfacing aggregate.

Meet the following sulfate soundness requirements:

- Sodium or Magnesium sulfate soundness test, five cycles.
- Coarse aggregate, 12 percent and 18 percent maximum respectively.

A. Acceptance. If the test results indicate the aggregate does not meet the requirements, the Contractor may make a written request for an independent laboratory to retest the material in question. The Contractor and the Department must agree upon the choice of the independent laboratory before release of the sample for testing. The Department will maintain and provide the original sample in the event of a retest. The independent laboratory results will be averaged with the results provided by the Department and the averaged results will be binding on both parties for acceptance of the material in question. The Contractor must pay the cost of duplicate testing if the average results in a failing test. The Department will pay the cost of duplicate testing if the average results in a passing test.

Furnish aggregate that does not contain wood and other plant material.

Do not use scoria (fired clay commonly found in conjunction with burned coal in the lignite fields of the State) as aggregate. Sources of scoria are common but not limited to Daniels, Sheridan, Roosevelt, McCone, Dawson, Prairie, Wibaux, Custer, Fallon, Rosebud, Treasure, Bighorn, Powder River, and Carter counties.

That portion of the aggregate retained on the No. 4 (4.75 mm) sieve is coarse aggregate, and that passing the No. 4 (4.75 mm) sieve is fine aggregate.

When wear factors are specified in the contract, the term "aggregate surfacing" includes all aggregates specified in Subsections 701.02.4 through 701.02.9.

The Department has 15 working days from the receipt of the test sample to furnish the test results. If sulfate testing is needed for verification, the Department has 25 working days from receipt of the test sample to furnish the test results. Contract time will be increased working day for working day, for each day the test results are delayed beyond the allowed review period, if the Departments delay affects the Contractor's operation as shown on the current work schedule. Contract time will not be extended if the delay occurs from November 16 through April 15, unless the Contractor is being charged contract time under Subsection 108.07.3.

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